

10/521746

FIG. 1

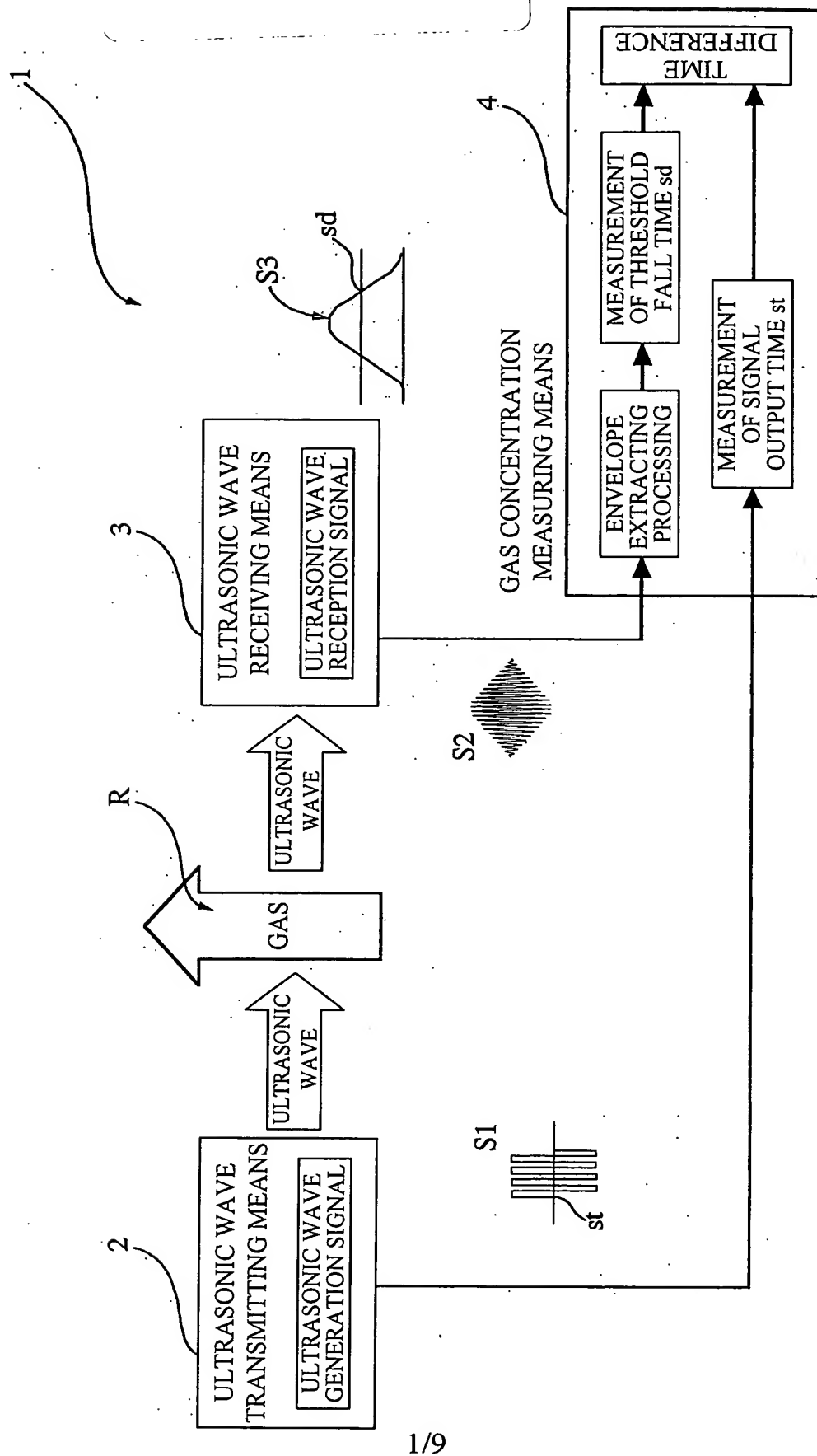


FIG. 2

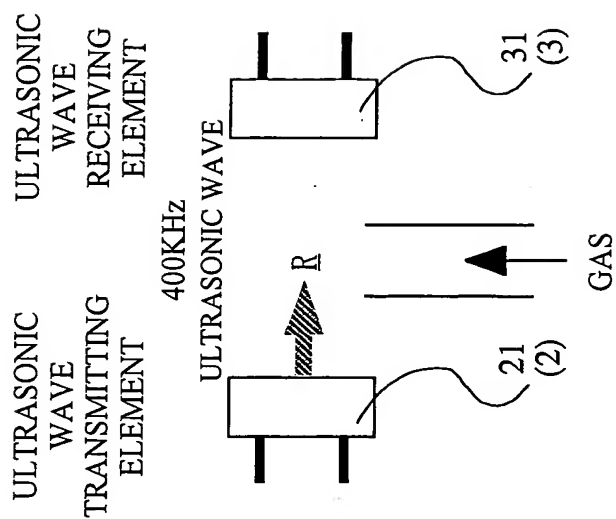
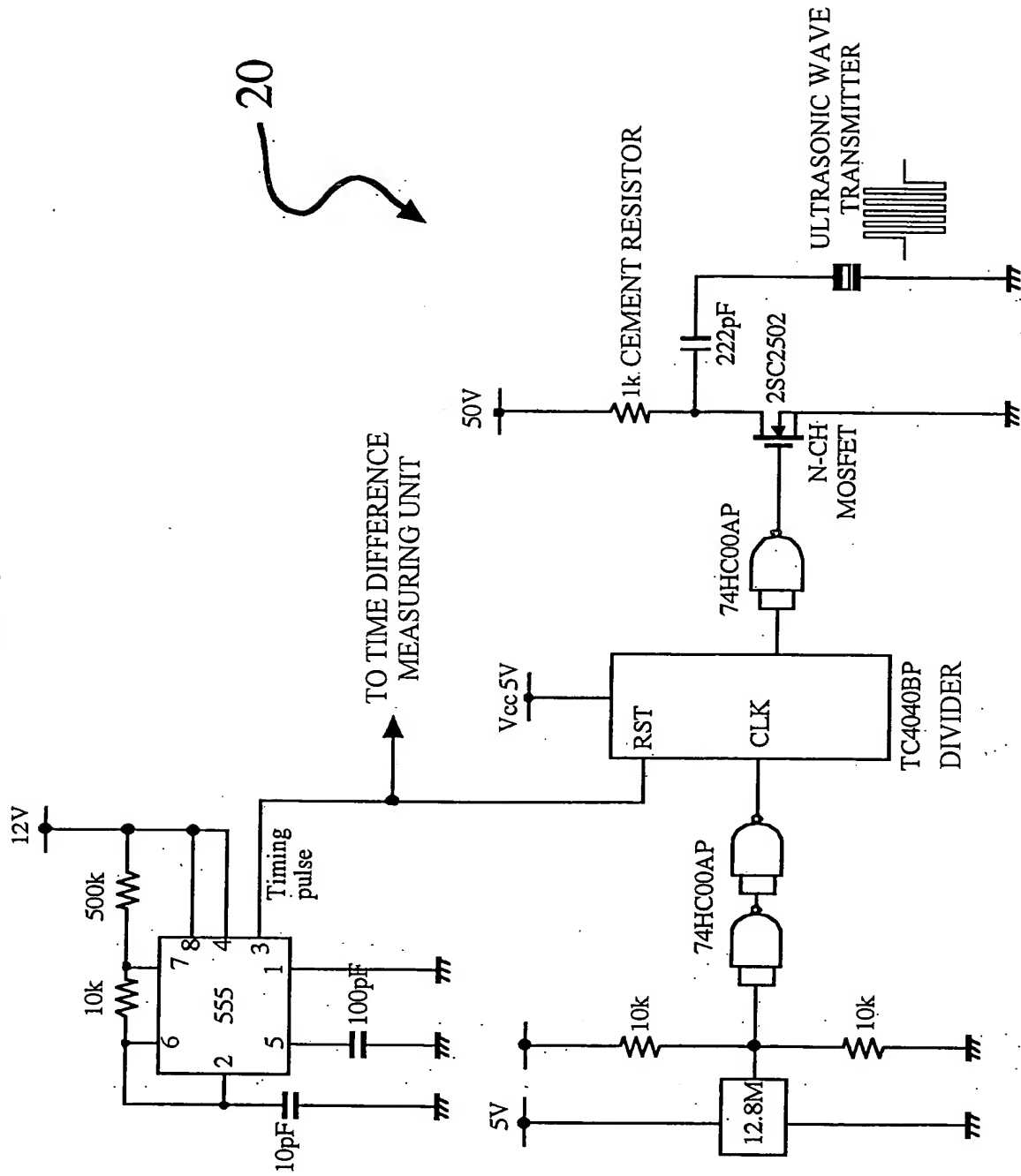


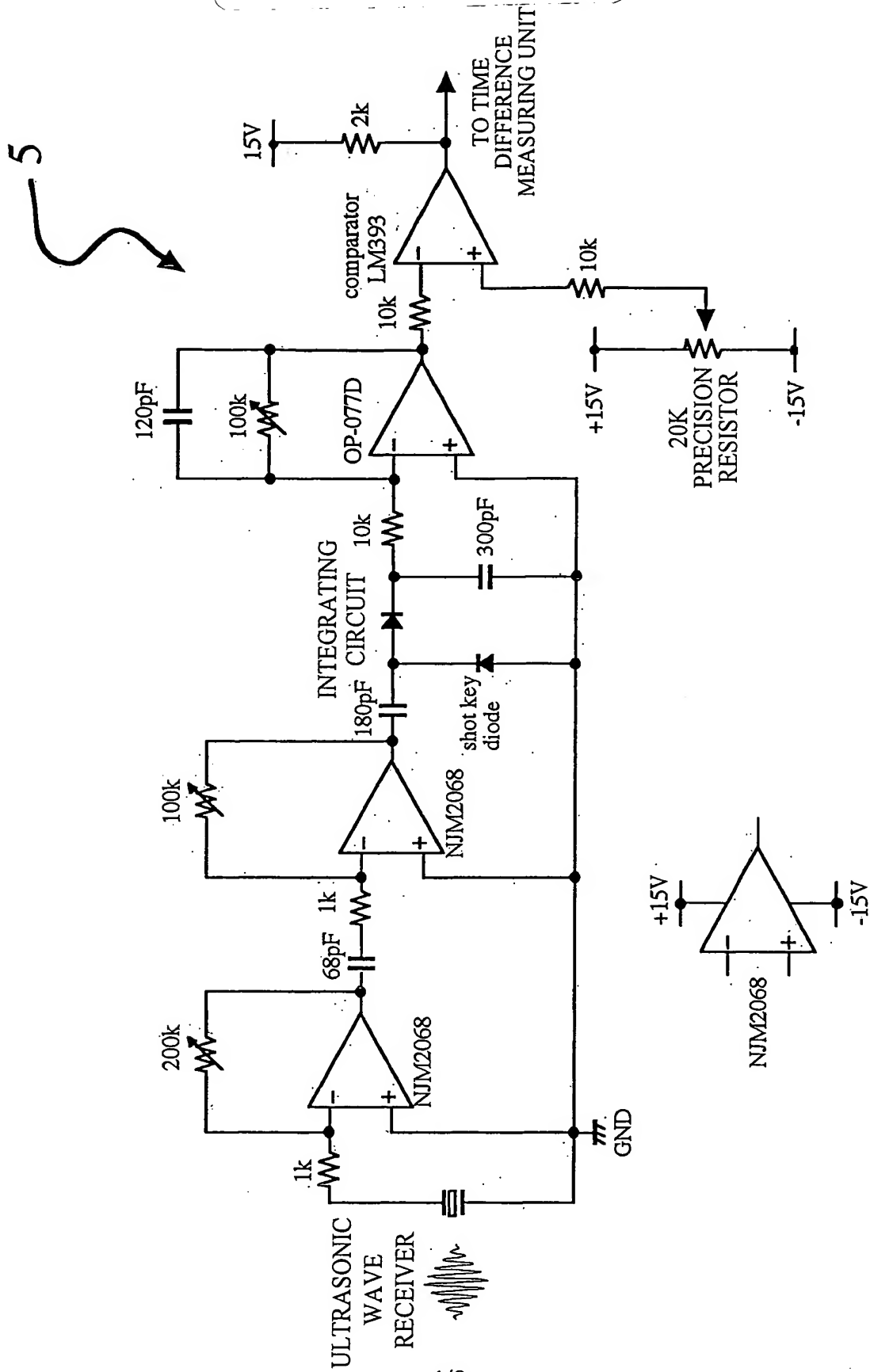
FIG. 3



ULTRASONIC WAVE PULSE GENERATING UNIT

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FIG. 4



ULTRASONIC WAVE PULSE RECEIVING UNIT

FIG. 5

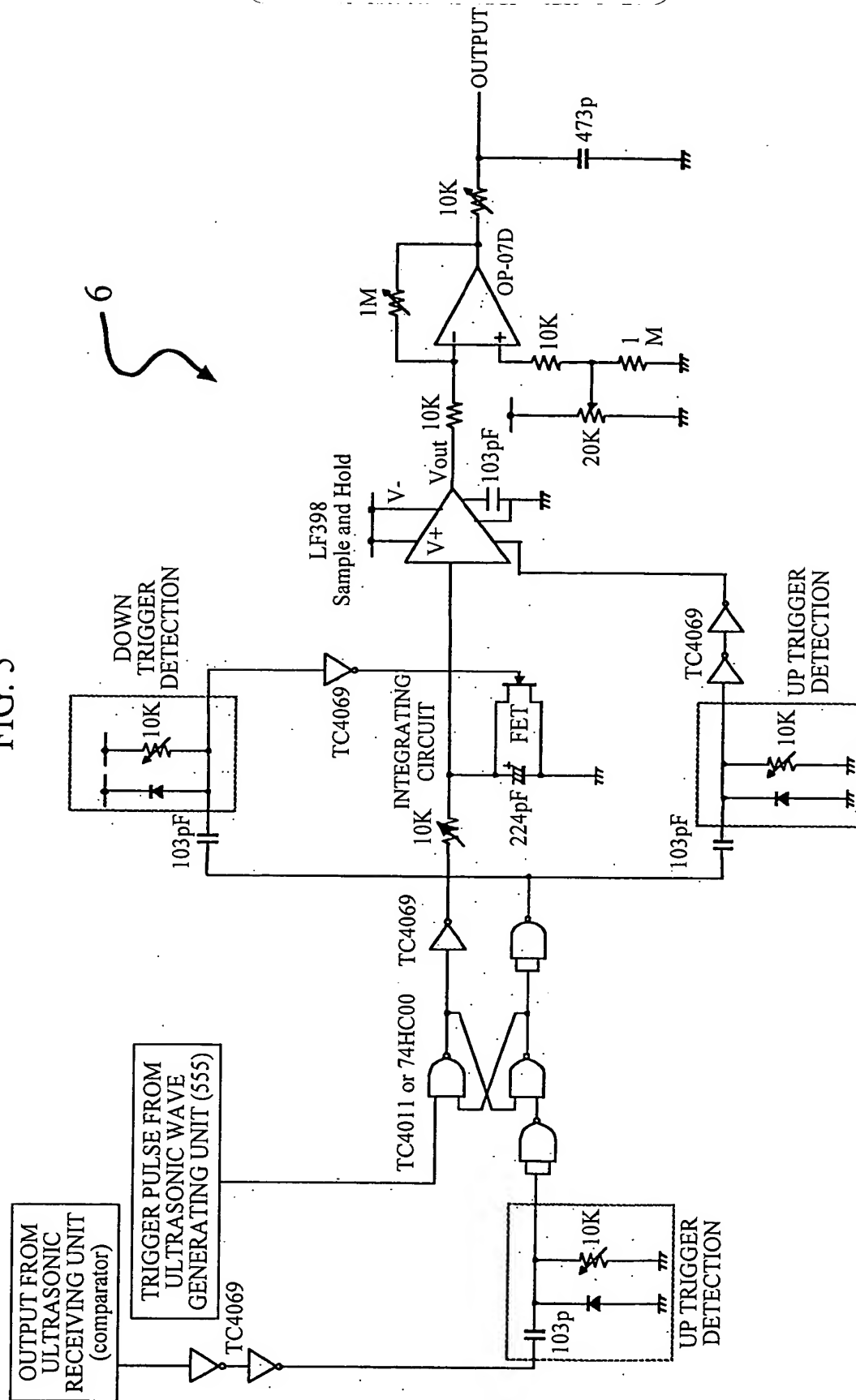
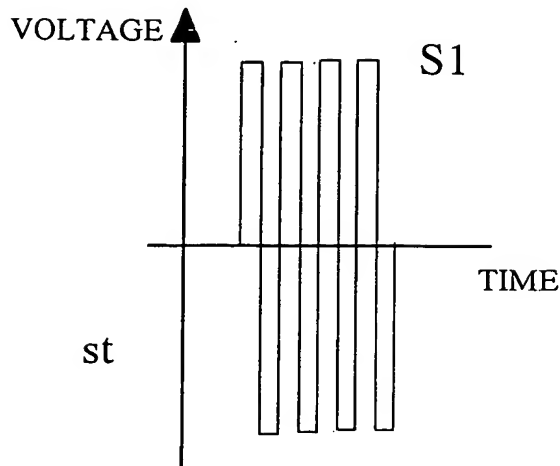
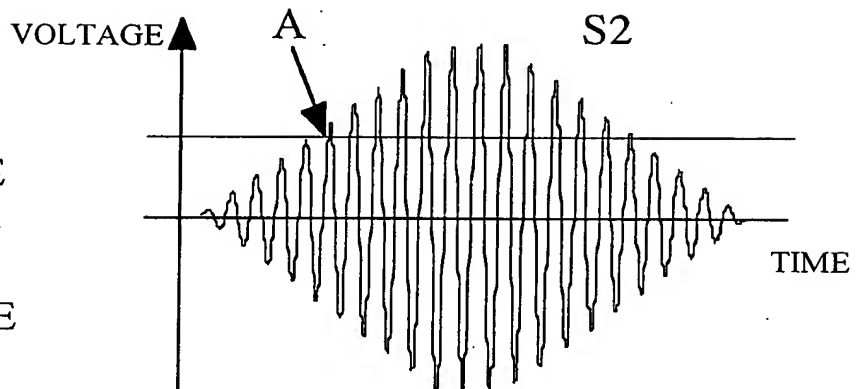


FIG. 6

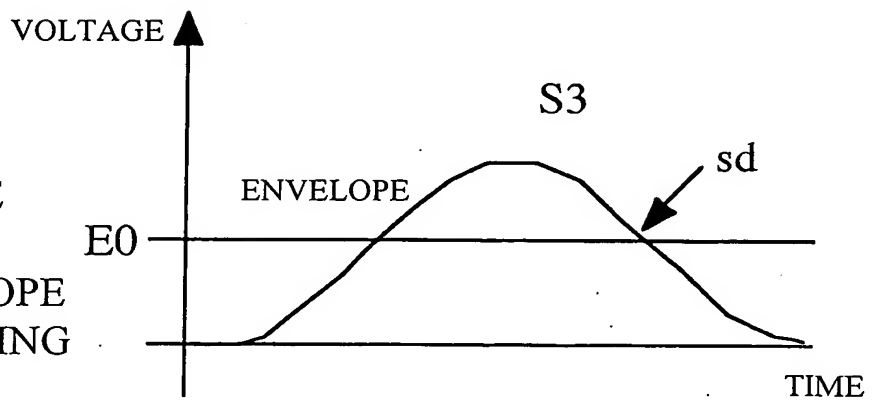
(a)  
ULTRASONIC WAVE  
TRANSMISSION  
SIGNAL



(b)  
ULTRASONIC WAVE  
RECEPTION SIGNAL  
IMMEDIATELY  
AFTER GAS PASSAGE

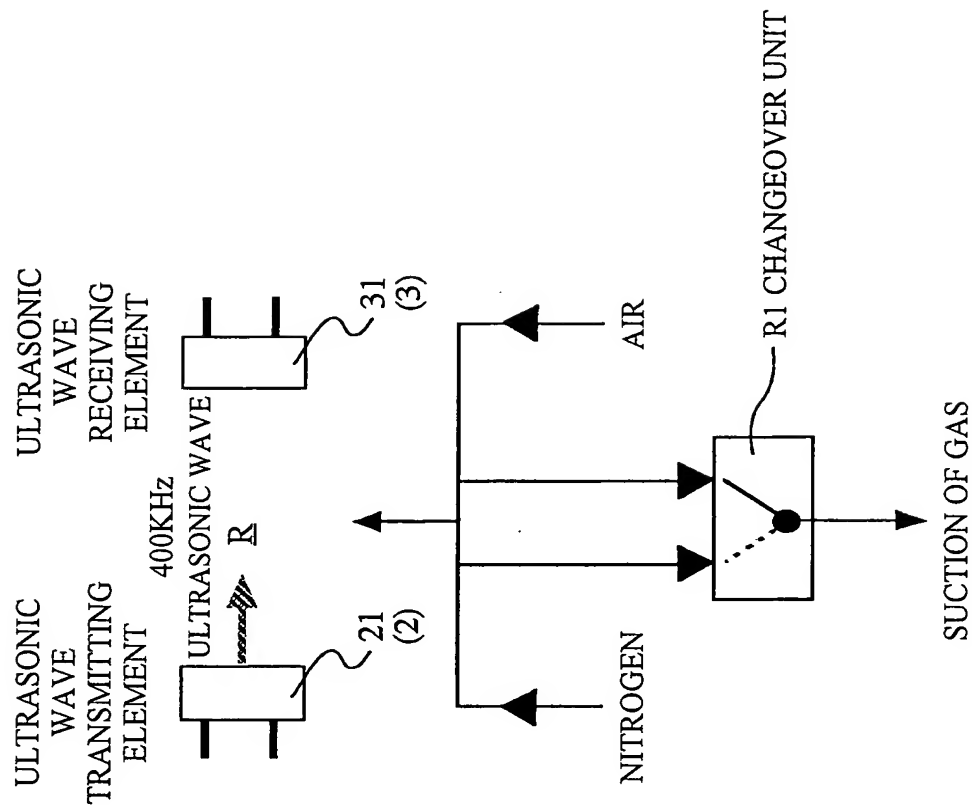


(c)  
ULTRASONIC WAVE  
RECEPTION  
SIGNAL AFTER ENVELOPE  
EXTRACTING PROCESSING



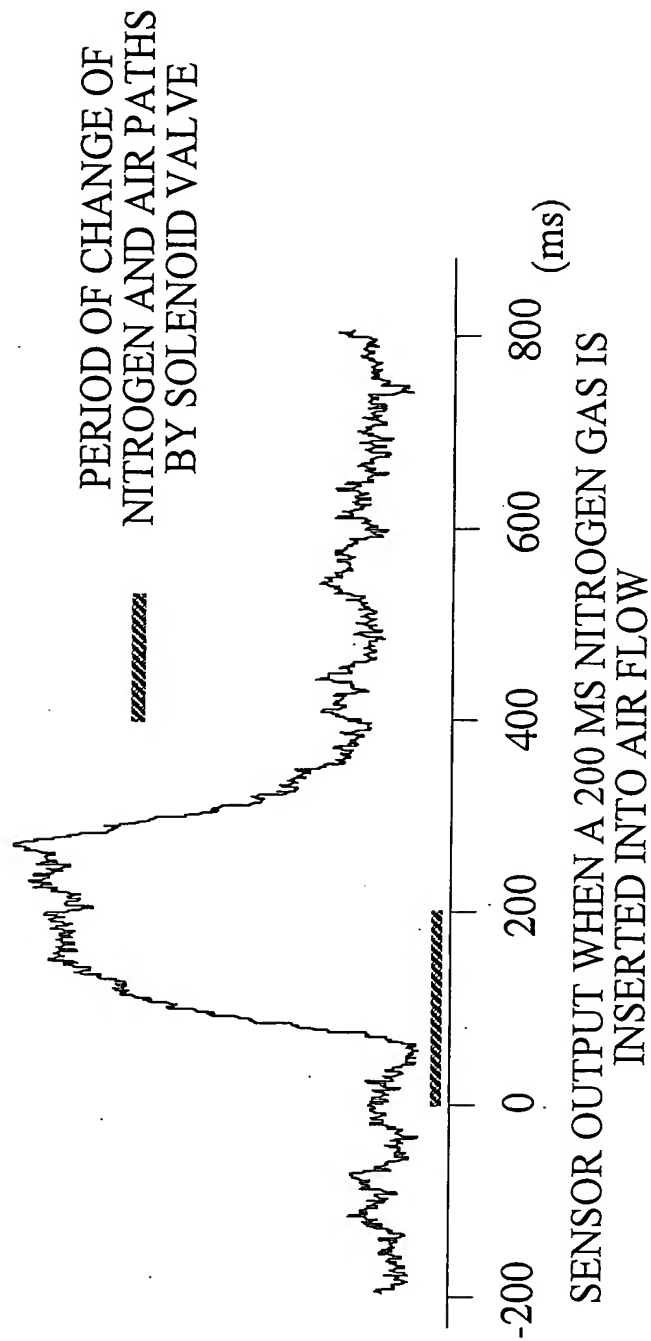
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FIG. 7



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FIG. 8





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FIG. 9

